

WHAT IS CLAIMED IS:

1. A method for transmitting and receiving short message broadcast services in a communication system comprising:

transmitting a broadcast indicator to notify whether a base station is transmitting a broadcast message to a mobile station;

receiving, at the mobile station, the broadcast indicator and checking a status of the broadcast indicator; and

receiving, at the mobile station, a broadcast message from said base station if the status of the broadcast indicator indicates that said base station is transmitting a broadcast message, wherein said broadcast message is received through a common control channel during a broadcast cycle.

2. A method of claim 1, further comprising transmitting, from said base station to the mobile station, an index through a paging channel prior to transmitting the broadcast indicator, wherein the index is used to calculate the broadcast cycle.

3. A method of claim 1, wherein transmitting the broadcast indicator through a quick paging channel before transmitting a broadcast message.

4. A method of claim 3, wherein inserting and transmitting the broadcast indicator in a reserved region of the quick paging channel.

5. A method of claim 4, wherein the quick paging channel further includes a paging indicator and a configuration change indicator.

6. A method of claim 3, wherein transmitting the broadcast indicator by at least 2 bits.

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7. A method of claim 3, wherein transmitting the broadcast indicator 100ms prior to transmitting a broadcast message.

8. A method of claim 3, wherein transmitting a broadcast message through the paging channel.

9. A method of claim 1, further comprising:

adding a field to an expanded system parameter message and transmitting said field to the mobile station, wherein said field notifies whether said base station provides a broadcast indicator;

checking, at the mobile station, the status of the broadcast indicator, if said field indicates that said base station provides a broadcast indicator; and

receiving, at the mobile station, a broadcast message from said base station if the status of the broadcast indicator indicates that said base station is transmitting a broadcast message.

10. A method of claim 9, wherein monitoring, at the mobile station, a first slot of a control channel in every broadcast cycle, if said field indicates that said base station does not provide a broadcast indicator.

11. A method of claim 9, wherein transmitting said field to the mobile station before transmitting a broadcast message to the mobile station.

5 12. A method of claim 9, wherein temporarily storing said field in a memory device of

the mobile station.

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Bl* 13. A method of claim 1, wherein the common control channel is one of either a paging channel or a broadcast channel.

14. A method of claim 1, wherein the mobile station enters an idle state if the broadcast indicator indicates that said base station not is transmitting a broadcast message.

15. A method for transmitting and receiving short message broadcast services in a communication system comprising:

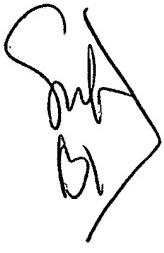
adding a field to an expanded system parameter message and transmitting said field to a mobile station, wherein said field notifies whether a base station provides a broadcast indicator;

transmitting a broadcast indicator through a quick paging channel before transmitting a broadcast message to notify whether the base station is transmitting a broadcast message to a mobile station;

receiving and checking, at the mobile station, the status of the broadcast indicator, if said field indicates that a base station provides a broadcast indicator; and

receiving, at the mobile station, a broadcast message from said base station if the status of the broadcast indicator indicates that said base station is transmitting a broadcast message, wherein said broadcast message is received through a common control channel during a broadcast cycle.

5 16. A method of claim 15, wherein inserting and transmitting the broadcast indicator in a reserved region of the quick paging channel by at least 2 bits.


17. A method of claim 15, wherein transmitting the broadcast indicator 100ms prior to transmitting a broadcast message.

18. A method of claim 15, wherein monitoring, at the mobile station, a first slot of a control channel in every broadcast cycle, if said field indicates that said base station does not provide a broadcast indicator.

19. A method of claim 15, wherein the mobile station enters an idle state if the broadcast indicator indicates that said base station not is transmitting a broadcast message.

